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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,393	04/02/2004	Cameron Kerrigan	50623.00381	2921
Sauira Sandar	7590 10/31/2007	•	EXAM	IINER
Squire, Sanders & Dempsey L.L.P. Suite 300 1 Maritime Plaza San Francisco, CA 94111			SELLMAN, CACHET I	
			ART UNIT	PAPER NUMBER
San Trancisco,			1792	
			MAIL DATE	DELIVERY MODE
			10/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/817,393	KERRIGAN, CAMERON			
Office Action Summary	Examiner	Art Unit			
	Cachet I. Sellman	1792			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on <u>16 August 2007</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1,2 and 4-16 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,2,and 4-16</u> is/are rejected.					
7) Claim(s) is/are objected to.	•				
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) ☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) □ acc	epted or b)⊡ objected to by the l	Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.					
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) U Other:					

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## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/16/2007 has been entered.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 1-2, 4-7, and 11-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor et al. (US 6214115) in view of Pacetti (US 6743462).

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Taylor et al. discloses a process for coating a stent which comprises inserting the stent over a mandrel having a hollow tubular body and pored disposed on a surface of the mandrel, the pores extending through the tubular body (col. 1, lines 27-28; 42-45). A coating solution is applied to the stent and a vacuum pressure is also applied to the hollow tubular body for extracting some of the coating solution that is applied to the stent (col. 2, line 63 – col. 3, line 1).

Taylor et al. fails to teach applying the vacuum pressure during coating as well as rotating the stent while applying the vacuum pressure as required by **claims 1, 11 and 14**. However, it was well known in the art at the time to rotate while applying the pressure differential and coating the stent as taughy by Pacetti. Pacetti teaches a process for coating a stent where the stent is rotated while a spray coating is being applied. The pressure is adjusted during coating (abstract and fig. 1), by reducing the pressure during coating to below ambient pressure allows for the solvent to evaporate more rapidly which applies the composition to be applied continuously therefore minimizing coating defects such as "pool webs" (see col. 3,line 45 – col. 4, line 10). Pacetti teaches that is was well known in the art to apply coatings to a stent using either spraying or immersion techniques therefore the two are interchangeable.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the process of Taylor et al. to include the steps of applying the vacuum pressure as well as rotating the stent while coating as taught by Pacetti. One would have been motivated to do so because both are directed towards coating stents while minimizing coating defects. Where Taylor et al. teaches applying

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the vacuum pressure after coating and Pacetti teaches that when the reduced pressure

is applied during the coating the coating can be applied continuously instead of in short

bursts when evaporating the coating after it is applied therefore minimizing coating

defects.

The composition as taught by Pacetti can be sprayed onto the stent because

spraying and immersion are two interchangeable methods of applying the coating to a

stent as required by claim 2.

As shown by Pacetti, the stent can be coated with a polymer dissolved in a

solvent and optionally a therapeutic substance (col. 1, lines 32-40) as required by claim

4.

Taylor et al. teaches that the stent is mounted on a mandrel and is affixed by two

collars (col. 1,l ines 49-53). The mandrel includes a support member to contact a first

end of the stent, another color i.e. a lock member, to contact a second end of the stent

and the outer surface of the mandrel contacts the inner surface of the stent as required

by claims 5, 7, 12, and 15.

Taylor et al. further teaches an alternative support design for coating a stent

where a plastic sheath having spiral slots formed around its outer surface, which is

placed around the external periphery of the mandrel (col. 3, lines 17-23). Therefore the

inner surface of the stent does not make contact with an outer surface of the mandrel as

required by clams 6, 13, and 16.

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5. Claims 6-10, 13, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor et al. in view of Pacetti ('462) as applied to claims 1, 11 and 14 above and in further view of Pacetti et al. (US 6565659).

The teachings of Taylor et al. in view of Pacetti ('462) are as stated above. They fail to teach that the mandrel is not in contact with the stent as required by **claims 6, 8-10,** and 13.

Pacetti et al. ('659) discloses an apparatus and process for coating a stent with a polymer and drug composition. The stent is mounted on a mandrel where it does not come in contact with the mandrel in order to minimize or eliminate the amount coating located where the stent and mandrel are in contact with one another (col. 2, lines 56-65). The support comprises of a mandrel that has a diamer smaller than the inner diameter of the stent to prevent the surfaces from contacting one another to avoid the mandrel from obstructing the patter of the stent body during coating (col. 3, lines 56-62). Lock members having coning end portions are provided at the ends, the mandrel can have a bore (see col. 3, line 30 – col. 4, line 29).

It would have been obvious to one having ordinary skill in the art to use the mounting assembly of Pacetti et al. ('659) in the process of Taylor et al. in view of Pacetti ('462) in order to prevent or minimize coating defects associated with the mandrel and stent coming in direct contact with each other especially since both are directed towards coating stents at the same time minimizing coating defects.

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4:30pm.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cachet I. Sellman whose telephone number is 571-272-0691. The examiner can normally be reached on Monday through Friday, 7:00 -

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cachet I Sellman Examiner Art Unit 1792

cis

/William Phillip Fletcher III/ Primary Examiner